



Material - IS 7806 Grade 13

Standard Specification for Heat Resistant Alloy Steel Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - IS 7806 Grade 13 Alloy Steel Casting for Heat Resistant

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------------|----------|
| Carbon | C % | 0.100 max. | Solution Annealing | |
| Silicon | Si % | 1.500 max. | | |
| Manganese | Mn % | 1.500 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.040 max. | | |
| Chromium | Cr % | 15.000 - 18.000 | | |
| Nickel | Ni % | 13.000 - 16.000 | | |
| Iron | Fe % | Balance | | _ |
| - | - | - | Mechanical Properties | |
| - | - | | Tensile Strength in Mpa | 480 min. |
| - | - | - | Yield Strength in Mpa | 210 min. |
| - | - | - | Elongation in % | 19 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | - |
| - | - | - | Impac <mark>t in Joule</mark> | - |

| Cross Reference Table | | | | |
|-----------------------|----------|--------------------------------------|---------|--|
| Material | Standard | Country Grade Belong to the Industry | | |
| SA-351 CF10MC | ASME | USA | Casting | |
| 20CH20N14S2L | GOST | Russia | Casting | |
| GX25CrNiSi 20-14 | DIN | Germany | Casting | |
| A351 CF10MC | ASTM | USA | Casting | |
| LH 19 N 14 G | PN | Poland | Casting | |
| 1.4832 | DIN | Germany | Casting | |
| J92971 | UNS | USA | Casting | |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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